

**PATENT**

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

**In re Application of:** James J. Howarth

**Serial No.:** 09/944,472

**Filed:** August 30, 2001

**For:** METHOD OF BALL GRID ARRAY  
(BGA) ALIGNMENT, METHOD OF  
TESTING, ALIGNMENT APPARATUS  
AND SEMICONDUCTOR DEVICE  
ASSEMBLY

**Examiner:** Unknown

**Group Art Unit:** 2811

**Attorney Docket No.:** 4348US  
(MUEI-0547.00/US)

**CERTIFICATE OF MAILING**

I hereby certify that this correspondence along with any attachments referred to or identified as being attached or enclosed is being deposited with the United States Postal Service as First Class Mail (under 37 C.F.R. § 1.8(a)) on the date of deposit shown below with sufficient postage and in an envelope addressed to the Commissioner for Patents, Washington, D.C. 20231.

January 29, 2002  
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Deidra Pfeil  
Typed/printed name of person whose signature is contained above

**TRANSMITTAL OF FORMAL DRAWINGS**

Commissioner for Patents  
Washington, D.C. 20231

Sir:

Attached please find the formal drawings for this application.

Respectfully submitted,



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Date: January 29, 2002  
BBJ/df/dp